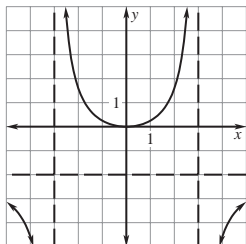


# Answer Key

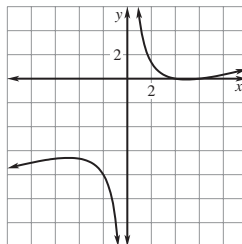
## Practice C

1. no  $x$ -intercepts; vertical asymptotes:  $x = -\frac{2}{3}$ ,  $x = 3$  2.  $x$ -intercept:  $-2$ ; vertical asymptote  $x = 0$  3.  $x$ -intercepts:  $-3, -5$ ; no vertical asymptotes 4. A 5. C 6. B

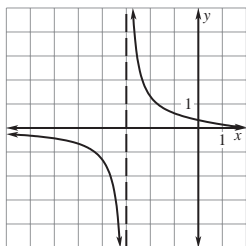
7.



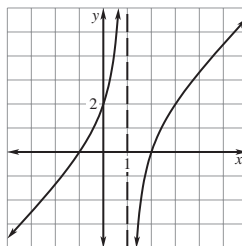
8.



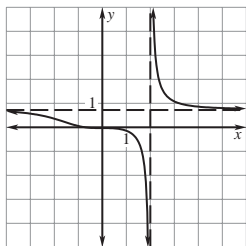
9.



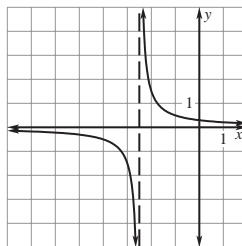
10.



11.



12.



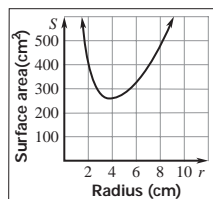
13. Answers may vary.

Sample answer:  $y = \frac{2x^2}{x^2 - x - 12}$

14.  $h = \frac{300}{\pi r^2}$

15.  $S = 2\pi r^2 + \frac{600}{r}$

16.



17.  $r \approx 3.67$  cm and  $h \approx 8.42$  cm